

**VOLUME 3  
DRAFT ENVIRONMENTAL IMPACT REPORT  
SCH 2-022396-1**

**ERRATA/RESPONSE TO COMMENTS**

**Lead Agency: Long Beach City Planning Commission  
712 W. Baker Street  
Proposed Self Storage w/ RV Storage**

**Long Beach, California**

**Prepared by:**

**Department of Planning and Building  
333 West Ocean Boulevard  
Long Beach, California**

**November 2003**

## ERRATA SUMMARY

### **Changes from the Draft EIR to be incorporated into the Final EIR**

1. Pages 11-14, Summary of Impacts After Mitigation, were inadvertently inserted into the DEIR. The Final EIR has been corrected to reflect the proposed project.

This error was determined not to be substantive, as the incorrect information appeared in the Executive Summary portion of the document. The actual body of the DEIR document was correct. See Attachment for corrected text.

2. Page 155 of the DEIR was changed in the Final EIR to add mitigation measure number XV-1. See Attachment.
3. Response to comments from the South Coast Air Quality Management District (M-3 & M-4) will be added to the air quality analysis section of the Final EIR. See Attachment.
4. The Mitigation Monitoring Plan has been updated to include "timing and responsible agency" for all mitigation measures. See Attachment.

## Summary of Impacts after Mitigation

Impact	Mitigation	Impact after Mitigation
<b>Aesthetics</b> Adverse construction Impacts	(Air Quality mitigation): screening And dust control	Less than significant
Interaction between self-storage use and adjacent residential uses	Based on the plan elevations see page 55 and Exhibit 6-1-3.2	Less than significant
<b>Air Quality</b> Adverse construction Impacts	Trucks hauling loose materials to Be covered, soil stabilizers to be Utilized, site to be watered down, Transport trucks to be washed, Particulate screen to enclose Site, conform to Rule 403 of SCAQMD	Reduced although Continuing Adverse Impacts during construction
<b>Biology</b> No impacts	None are required	No impact
<b>Cultural Resources</b> No impacts	None are required	No impact
<b>Geology and Soils</b> No significant impacts The mitigation contained In the hydrology section Will prevent erosion.	See pages 88-90	Less than significant
<b>Hazards and Hazardous Materials</b> Beneficial impacts are Anticipated due to Site remediation	Se page 99 & 100	Beneficial Impacts
<b>Hydrology and Water Quality</b> Adverse impacts due to Potential soil importation and grading which can cause erosion.	Erosion protection plan required, Compliance with NPDES,	Beneficial Impacts

### **Land Use and Planning**

Adverse Impact: project Does not conform to General Plan.	Applications to amend the General Plan to mitigate Non-conformity	Less than significant
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### **Mineral Resources**

No impacts are anticipated.	None are required.	No impact
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### **National Pollution Discharge Elimination System**

Adverse impacts due to Potential to impact storm Water.	Prepare Storm Water Pollution Prevention Plan for both Construction and project Operations.	Less than significant
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### **Noise**

Adverse Impacts: Grading and construction Will significantly exceed Ambient noise levels.	Limit the hours of grading, prevent Queuing of trucks, advise residents In advance of operations, utilize Quieter equipment.	Reduced, although Adverse impacts during construction
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### **Population and Housing**

None are anticipated	None are required	No impacts.
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### **Public Service**

Fire Services	see page 125	Less than significant
Police services	Provide security and lighting	Less than significant

### **Traffic and Transportation**

Construction related traffic	Wardlow Road access prior To construction	Less than significant
Operational traffic	Construct Wardlow Road access	Less than significant

### **Utilities and Service Systems**

Sewer line on property	Obtain "build over" permit From LA County sanitation district	Less than significant
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## XV. UTILITIES / SERVICE SYSTEMS

### *Existing Setting*

The project site is located in an urban setting and, as such, has access to and is served by existing utilities. The utility providers are as follows: the City of Long Beach for water and sewer, Southern California Edison for electricity and Southeast Resource Recovery Facility for solid waste.

### *Anticipated Impacts*

The proposed project, a self-storage facility to be constructed in four phases, would have an increased demand upon utilities beyond what is presently on the project site. The impacts, however, would not be expected to be significant. Electricity would be utilized throughout the facility and water would be utilized in certain buildings and for washing down the impervious surfaces. The existing sewer would be adequate to accommodate the single dwelling unit proposed at the facility as well as the restrooms for self-storage customers. The solid waste requirements would not be excessive.

The demands for each utility would increase as each phase of the facility is completed. With respect to CEQA, the proposed project would not result in the need for any new facilities. This would include water, wastewater and solid waste.

### *Mitigation Measures*

~~-None are required.~~ XV-1 Prior to the issuance of grading permits, the applicant must obtain a "buildover" permit from the Los Angeles County Sanitation District.

### *Cumulative Impacts*

None are anticipated.

### *Unavoidable Significant Impacts*

None are anticipated.

The analysis assumes year June 2004 – June 2005 emissions for worker commutes and truck hauls for the duration of the construction period. The proposed project would not be fully constructed in the year June 2004 – June 2005, but this timeframe is used to estimate 'worst case' conditions. SCAQMD requirements will result in lower emissions rates in subsequent future years. Emissions methodology and calculations are presented in Appendix F. The results of the analysis are shown in Tables 6-II-3 and 6-II-4. Note that NO<sub>x</sub>, ROG (mainly from the application of paints and coatings), and PM<sub>10</sub> would exceed their respective daily and quarterly threshold levels, producing a significant impact.

Another aspect of construction has to do with PM<sub>10</sub> that is contained in the fugitive dust that is raised as a result of grading activities and transport over unpaved surfaces. PM<sub>10</sub> emissions associated with this fugitive dust were calculated using methodology included in the URBEMIS7G model. For the purposes of this analysis, the unmitigated value predicted in the URBEMIS7G model was reduced by 50% to account for compliance with SCAQMD Rule 403. Adherence to this rule is mandatory and under CEQA, adherence to established rules and regulation does not denote mitigation. Based on the included analysis, even with Rule 403 compliance, when PM<sub>10</sub> from all sources is considered, both daily and quarterly thresholds are projected to be exceeded, resulting in a potentially significant impact that will require mitigation to reduce this impact to the extent reasonably feasible. Note that of itself, the PM<sub>10</sub> included in the fugitive dust would not exceed these criteria values. However, because the PM<sub>10</sub> included in the dust is the most viable way to mitigate this impact, the included mitigation measures center on fugitive dust reduction methods.

M-4 Operational Impacts, with respect to both mobile and stationary air emission sources, are not estimated to exceed SCAQMD air quality significance thresholds. Operational emissions have been calculated for both mobile and stationary sources using the URBEMIS 2002 model and the following are the results of those calculations (in lbs./day – unmitigated):

	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM10</b>
Total Emissions	24.35	26.42	237.77	0.24	19.67
SCAQMD Thresholds	55	55	550	150	150
Exceeds Thresholds?	NO	NO	NO	NO	NO

**2002 AIR QUALITY**  
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

# 2002

Source/Receptor Area No. Location		Station No.	Carbon Monoxide					Ozone								Nitrogen Dioxide					Sulfur Dioxide		
			No. Days Standard Exceeded a)				No. Days Standard Exceeded								No. Days Standard Exceeded				No. Days Standard Compared to Federal Standard b)			Max. Conc. in 24-hour c)	
			No. Days in Data	Max. Conc. 1-hour	Max. Conc. 8-hour	Max. Federal 8-hour	Max. State 8-hour	No. Days in Data	Max. Conc. 1-hour	Max. Conc. 8-hour	Fourth 8-hour	Health Advisory 1-hour	High Conc. 1-hour	Federal 0.12	State 0.08	AAM 0.09	No. Days in Data	Max. Conc. 1-hour	Max. Conc. 8-hour	State 0.25	AAM	No. Days in Data	Max. Conc. 1-hour
LOS ANGELES COUNTY																							
1 Central LA	087	360	5	4.0	0	0	0	365	0.122	0.080	0.079	0	0	0	8	363	0.14	0	0.0327	365	0.02	0.016	
2 Northwest Coastal LA County	091	365	4	2.7	0	0	0	365	0.118	0.078	0.074	0	0	0	1	360	0.11	0	0.0249	--	--	--	
3 Southwest Coastal LA County	094	363	7	6.1	0	0	0	357	0.088	0.073	0.066	0	0	0	0	315*	0.10*	0	0.0244*	360	0.07	0.007	
4 South Coastal LA County	072	365	6	4.6	0	0	0	365	0.084	0.065	0.060	0	0	0	0	350	0.13	0	0.0298	365	0.03	0.008	
6 West San Fernando Valley	074	365	6	4.8	0	0	0	365	0.152	0.122	0.113	1	9	27	42	362	0.09	0	0.0248	--	--	--	
7 East San Fernando Valley	069	365	6	4.6	0	0	0	365	0.128	0.097	0.091	0	1	6	17	362	0.26	1	0.0402	363	0.01	0.007	
8 West San Gabriel Valley	088	365	6	4.0	0	0	0	365	0.137	0.103	0.096	0	3	10	23	365	0.15	0	0.0335	--	--	--	
9 East San Gabriel Valley 1	060	365	4	2.4	0	0	0	365	0.136	0.102	0.098	0	5	12	26	363	0.12	0	0.0336	--	--	--	
9 East San Gabriel Valley 2	591	365	5	2.3	0	0	0	365	0.152	0.114	0.111	1	12	23	45	362	0.10	0	0.0272	--	--	--	
10 Pomona/Walnut Valley	075	365	6	3.3	0	0	0	365	0.150	0.112	0.100	1	5	15	28	365	0.11	0	0.0365	--	--	--	
11 South San Gabriel Valley	085	365	5	4.0	0	0	0	365	0.111	0.079	0.074	0	0	0	3	362	0.12	0	0.0344	--	--	--	
12 South Central LA County	084	363	16	10.1	1	1	0	364	0.072	0.053	0.050	0	0	0	0	362	0.14	0	0.0357	--	--	--	
13 Santa Clarita Valley	090	363	3	1.9	0	0	0	362	0.169	0.145	0.131	8	32	56	81	355	0.10	0	0.0200	--	--	--	
ORANGE COUNTY																							
16 North Orange County	3177	365	10	4.4	0	0	0	365	0.121	0.079	0.073	0	0	0	3	335	0.12	0	0.0256	--	--	--	
17 Central Orange County	3176	365	7	5.4	0	0	0	365	0.103	0.079	0.070	0	0	0	3	358	0.10	0	0.0244	--	--	--	
18 North Coastal Orange County	3195	357	5	4.3	0	0	0	365	0.087	0.071	0.066	0	0	0	0	364	0.11	0	0.0187	365	0.03	0.016	
19 Saddleback Valley	3812	365	3	3.6	0	0	0	365	0.136	0.095	0.081	0	2	2	9	--	--	--	--	--	--	--	
RIVERSIDE COUNTY																							
22 Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
23 Metropolitan Riverside County 1	4144	358	8	3.0	0	0	0	358	0.155	0.124	0.111	1	12	38	56	338	0.10	0	0.0237	351	0.02	0.002	
23 Metropolitan Riverside County 2	4146	361	7	3.9	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
24 Perris Valley	4149	--	--	--	--	--	--	365	0.147	0.117	0.107	1	4	41	59	--	--	--	--	--	--	--	
25 Lake Elsinore	4158	365	3	2.0	0	0	0	365	0.139	0.114	0.104	0	6	44	52	364	0.07	0	0.0173	--	--	--	
29 Banning Airport	4164	--	--	--	--	--	--	365	0.160	0.131	0.113	2	13	52	64	364	0.15	0	0.0199	--	--	--	
30 Coachella Valley 1**	4137	363	2	1.2	0	0	0	365	0.136	0.127	0.110	0	2	48	49	356	0.10	0	0.0172	--	--	--	
30 Coachella Valley 2**	4157	--	--	--	--	--	--	365	0.114	0.111	0.096	0	0	16	24	--	--	--	--	--	--	--	
SAN BERNARDINO COUNTY																							
32 Northwest San Bernardino Valley	5175	363	4	1.6	0	0	0	363	0.139	0.118	0.106	0	5	19	36	359	0.12	0	0.0369	--	--	--	
33 Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
34 Central San Bernardino Valley 1	5197	--	--	--	--	--	--	335	0.159	0.124	0.115	2	8	22	37	303*	0.12*	0	0.0334*	329	0.03*	0.010*	
34 Central San Bernardino Valley 2	5203	359	5	3.3	0	0	0	359	0.147	0.113	0.106	1	6	30	43	345	0.11	0	0.0296	--	--	--	
35 East San Bernardino Valley	5204	--	--	--	--	--	--	365	0.158	0.123	0.119	2	23	47	66	--	--	--	--	--	--	--	
37 Central San Bernardino Mountains	5181	--	--	--	--	--	--	365	0.161	0.139	0.132	3	22	82	91	--	--	--	--	--	--	--	
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DISTRICT MAXIMUM		16	10.1	1	1			0.169	0.145	0.132	8	32	82	91		0.26	1	0.0402		0.07	0.016		
SOUTH COAST AIR BASIN		16	10.1	1	1			0.169	0.145	0.132	18	49	103	118		0.26	1	0.0402		0.07	0.016		

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- Pollutant not monitored.

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.

a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.

b) - The federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.

c) - The state standards are 1-hour average SO<sub>2</sub> > 0.25 ppm and 24-hour average SO<sub>2</sub> > 0.04 ppm. No location exceeded state standards.

The federal standards are annual arithmetic mean SO<sub>2</sub> > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm.

SO<sub>2</sub> concentrations were well below the federal standards.



**South Coast  
Air Quality Management District**  
21865 Copley Drive  
Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/smog/areamap.html>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

**2002 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No Location	Station No.	Suspended Particulates PM10 d),++						Suspended Particulates PM2.5 e),++						Particulates TSP f)			Lead f)		Sulfate f)		
		No. Days of Data	Max. Conc. in 24-hour	No. (%) Samples Exceeding Standard	Federal	State	Annual Averages g)	No. Days of Data	Max. Conc. in 24-hour	No. (%) Samples Exceeding Standard	Federal	State	Annual Averages h)	No. Days of Data	Max. Conc. in 24-hour	Annual AAM	Max. Monthly Average Conc. i)	Max. Quarterly Average Conc. i)	No. (%) Samples Exceeding Standard	Max. Conc. in 24-hour	State 24-hour
LOS ANGELES COUNTY																					
1 Central LA	087	55	65	0	8(14.5)	39.3	37.6	330	66.3	1(0.3)	21.8	69	152	77.7	0.05	0.03	15.2	0			
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	60	191	52.3	--	--	14.6	0			
3 Southwest Coastal LA County	094	61	121	0	12(19.7)	37.4	34.1	--	--	--	--	60	680	83.8	0.02	0.02	15.6	0			
4 South Coastal LA County	072	58	74	0	5(8.6)	35.9	34.1	356	62.7	0	19.5	61	104	65.5	0.03	0.02	17.8	0			
6 West San Fernando Valley	074	--	--	--	--	--	--	120	48.8	0	18.9	--	--	--	--	--	--	--	--	--	
7 East San Fernando Valley	069	58	71	0	7(12.1)	37.7	35.2	122	63.0	0	24.0	--	--	--	--	--	--	--	--	--	
8 West San Gabriel Valley	088	--	--	--	--	--	--	121	57.8	0	20.3	59	86	54.8	--	--	10.5	0			
9 East San Gabriel Valley 1	060	57	91	0	23(40.4)	46.1	42.7	339	72.4	1(0.3)	20.8	59	195	91.7	--	--	11.3	0			
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10 Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11 South San Gabriel Valley	085	--	--	--	--	--	--	118	61.0	0	23.9	60	147	82.5	0.06	0.05	11.2	0			
12 South Central LA County	084	--	--	--	--	--	--	122	64.0	0	23.3	59	223	98.5	0.04	0.04	15.3	0			
13 Santa Clarita Valley	090	60	61	0	7(11.7)	33.3	32.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
ORANGE COUNTY																					
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
17 Central Orange County	3176	61	69	0	5(8.2)	33.6	31.5	351	68.6	1(0.3)	18.6	--	--	--	--	--	--	--	--	--	
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19 Saddleback Valley	3812	60	80	0	5(8.3)	31.3	28.7	119	58.5	0	15.5	--	--	--	--	--	--	--	--	--	
RIVERSIDE COUNTY																					
22 Norco/Corona	4155	56	78	0	19(33.9)	44.5	41.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
23 Metropolitan Riverside County 1	4144	118	130	0	81(68.6)	58.5	53.4	327	77.6	8(2.5)	27.5	60	200	120.1	0.03	0.02	11.7	0			
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	--	115	75.5	2(1.7)	27.1	62	129	84.6	0.02	0.02	10.5	0			
24 Perris Valley	4149	61	100	0	24(39.3)	45.2	41.6	--	--	--	--	--	--	--	--	--	--	--	--	--	
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
29 Banning Airport	4164	54	70	0	6(11.1)	27.5	23.7	--	--	--	--	--	--	--	--	--	--	--	--	--	
30 Coachella Valley 1**	4137	59	75	0	3(5.1)	27.1	24.6	119	42.3	0	10.0	--	--	--	--	--	--	--	--	--	
30 Coachella Valley 2**	4157	115+	139+	0+	52(45.2)+	50.6+	49.1+	117	26.8	0	12.0	--	--	--	--	--	--	--	--	--	
SAN BERNARDINO COUNTY																					
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	61	122	71.9	0.02	0.02	11.5	0			
33 Southwest San Bernardino Valley	5817	61	91	0	25(41.0)	44.9	41.0	111	64.8	0	25.2	--	--	--	--	--	--	--	--	--	
34 Central San Bernardino Valley 1	5197	60	102	0	32(53.3)	50.2	45.9	118	66.6	1(0.9)	24.3	60	182	105.6	--	--	13.5	0			
34 Central San Bernardino Valley 2	5203	59	94	0	33(55.9)	50.4	45.9	117	82.1	3(2.6)	25.7	60	175	97.8	0.03	0.02	10.8	0			
35 East San Bernardino Valley	5204	57	83	0	18(31.6)	41.2	36.3	--	--	--	--	--	--	--	--	--	--	--	--	--	
37 Central San Bernardino Mountains	5181	27*	52*	0	5(18.5)*	36.9*	35.0*	--	--	--	--	--	--	--	--	--	--	--	--	--	
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	56	34.1	0	11.3	--	--	--	--	--	--	--	--	--	
DISTRICT MAXIMUM		139	0	81	58.5	53.4		82.1	8	27.5		680	120.1	0.06	0.05	17.8	0				
SOUTH COAST AIR BASIN		130	0	90	58.5	53.4		82.1	10	27.5		680	120.1	0.06	0.05	17.8	0				

µg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM - Annual Arithmetic Mean

AGM - Annual Geometric Mean

-- - Pollutant not monitored.

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.

d) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

e) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

f) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

g) - Federal PM10 standard is annual average (AAM) > 50 µg/m<sup>3</sup>, and state standard is annual average (AAM) > 20 µg/m<sup>3</sup>\*\*.

h) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m<sup>3</sup>, and state standard is annual average (AAM) > 12 µg/m<sup>3</sup>\*\*.

i) - Federal lead standard is quarterly average > 1.5 µg/m<sup>3</sup>; and state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. No location exceeded lead standards.

Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 2002. The maximum monthly average concentration was 1.33 µg/m<sup>3</sup>, and the maximum quarterly average concentration was 0.49 µg/m<sup>3</sup>, both recorded in Southeast Los Angeles County area.

+- The data for the samples collected on high-wind-days (177 µg/m<sup>3</sup> on 5/8/02 and 276 µg/m<sup>3</sup> on 11/25/02) were excluded in accordance with EPA's Natural Events Policy.

++ - The new PM2.5 annual average state standard of 12 µg/m<sup>3</sup> and revised PM10 annual average state standard of 20 µg/m<sup>3</sup> (to replace AGM 30 µg/m<sup>3</sup>) recommended by the California Air Resources Board have been approved by the state Office of Administrative Law and will become effective on July 5, 2003.

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**2001 AIR QUALITY**  
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2001

Source/Receptor Area No. Location	Station No.	Carbon Monoxide						Ozone						Nitrogen Dioxide						Sulfur Dioxide		
		No. Days Standard Exceeded <sup>a)</sup>				No. Days Standard Exceeded				No. Days Standard Exceeded				Average Compared To Federal Standard <sup>c)</sup>				No. Days of Data				
		No. Days of Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	Max. Federal Conc. in ≥ 9.5 ppm	Max. State Conc. in > 9.0 ppm	No. Days of Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	Health Advisory in ≥ 0.15 ppm	Federal in > 0.12 ppm	State in > 0.08 ppm	AAM in > 0.09 ppm	No. Days of Data	Max. Conc. in 1-hour <sup>b)</sup>	Max. Conc. in 24-hour	AAM in ppm	Max. Conc. in 1-hour <sup>d)</sup>	Max. Conc. in 24-hour <sup>d)</sup>			
LOS ANGELES COUNTY																						
1 Central LA	087	362	6	4.57	0	0	361	0.116	0.099	0	0	1	8	365	0.14	0.078	0.0378	365	0.03	0.010		
2 Northwest Coastal LA County	091	361	4	3.00	0	0	365	0.099	0.080	0	0	0	1	365	0.11	0.080	0.0251	--	--	--		
3 Southwest Coastal LA County	094	365	7	5.14	0	0	360	0.098	0.080	0	0	0	1	362	0.11	0.080	0.0250	365	0.04	0.012		
4 South Coastal LA County	072	361	6	4.71	0	0	360	0.091	0.070	0	0	0	0	364	0.13	0.070	0.0308	364	0.05	0.012		
6 West San Fernando Valley	074	365	7	6.00	0	0	365	0.140	0.117	0	2	7	25	359	0.09	0.060	0.0266	--	--	--		
7 East San Fernando Valley	069	364	6	4.88	0	0	356	0.129	0.104	0	2	5	15	347	0.25	0.091	0.0419	345	0.01	0.004		
8 West San Gabriel Valley	088	355	7	5.00	0	0	361	0.160	0.120	1	1	9	28	365	0.15	0.086	0.0345	--	--	--		
9 East San Gabriel Valley 1	060	361	3	2.88	0	0	365	0.189	0.131	3	9	18	36	365	0.12	0.094	0.0331	--	--	--		
9 East San Gabriel Valley 2	591	357	3	2.50	0	0	362	0.190	0.135	5	13	31	61	365	0.12	0.067	0.0274	--	--	--		
10 Pomona/Walnut Valley	075	365	5	3.43	0	0	363	0.144	0.108	0	1	3	12	365	0.13	0.095	0.0371	--	--	--		
11 South San Gabriel Valley	085	365	6	4.00	0	0	365	0.132	0.100	0	1	2	7	363	0.14	0.076	0.0352	--	--	--		
12 South Central LA County	084	365	12	7.71	0	0	365	0.077	0.061	0	0	0	0	363	0.15	0.072	0.0369	--	--	--		
13 Santa Clarita Valley	090	361	6	3.14	0	0	356	0.184	0.129	2	9	27	49	351	0.10	0.048	0.0239	--	--	--		
ORANGE COUNTY																						
16 North Orange County	3177	363	11	4.71	0	0	360	0.114	0.090	0	0	2	4	363	0.13	0.069	0.0275	--	--	--		
17 Central Orange County	3176	274*	8*	4.71*	0*	0*	274*	0.107*	0.071*	0*	0*	0*	2*	274*	0.12*	0.069*	0.0293*	--	--	--		
18 North Coastal Orange County	3195	363	6	4.57	0	0	365	0.098	0.073	0	0	0	1	365	0.08	0.063	0.0182	343	0.01	0.007		
19 Saddleback Valley	3812	365	3	2.38	0	0	365	0.125	0.098	0	1	2	10	--	--	--	--	--	--	--		
RIVERSIDE COUNTY																						
22 Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
23 Metropolitan Riverside County 1	4144	356	5	3.43	0	0	365	0.143	0.120	0	7	34	41	362	0.15	0.064	0.0247	365	0.02	0.011		
23 Metropolitan Riverside County 2	4146	329*	6*	4.50*	0*	0*	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
24 Perris Valley	4149	--	--	--	--	--	361	0.152	0.136	5	19	58	73	--	--	--	--	--	--	--		
25 Lake Elsinore	4158	355	2	2.00	0	0	348	0.151	0.120	1	12	46	61	352	0.09	0.102	0.0185	--	--	--		
29 Banning Airport	4164	--	--	--	--	--	365	0.149	0.129	2	16	49	63	343	0.24	0.057	0.0211	--	--	--		
30 Coachella Valley 1**	4137	357	2	1.50	0	0	358	0.137	0.114	0	6	42	53	345	0.08	0.043	0.0175	--	--	--		
30 Coachella Valley 2**	4157	--	--	--	--	--	365	0.114	0.099	0	0	17	21	--	--	--	--	--	--	--		
SAN BERNARDINO COUNTY																						
32 Northwest San Bernardino Valley	5175	364	3	1.75	0	0	365	0.174	0.138	6	14	33	53	347	0.13	0.085	0.0384	--	--	--		
33 Southwest San Bernardino Valley	5817	--	--	--	--	--	365	0.165	0.136	6	13	31	44	365	0.13	0.084	0.0358	330*	0.01*	0.010*		
34 Central San Bernardino Valley 1	5197	--	--	--	--	--	--	--	--	--	--	--	--	329*	0.11*	0.066*	0.0303*	--	--	--		
34 Central San Bernardino Valley 2	5203	365	4	3.25	0	0	365	0.184	0.144	5	18	39	55	--	--	--	--	--	--	--		
35 East San Bernardino Valley	5204	--	--	--	--	--	327*	0.167*	0.144*	7*	21*	52*	68*	--	--	--	--	--	--	--		
37 Central San Bernardino Mountains	5181	--	--	--	--	--	365	0.171	0.139	12	26	74	88	--	--	--	--	--	--	--		
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DISTRICT MAXIMUM		12	7.71	0	0	0	0.190	0.144	12	26	74	88	0.25	0.102	0.0419	0.09	0.012					

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- Pollutant not monitored.

\*Less than 12 full months of data. May not be representative.

\*\*Salton Sea Air Basin.

a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.

b) - The state standard is 1-hour average > 0.25 ppm. No location exceeded state standard.

c) - The federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.

d) - The state standards are 1-hour average > 0.25 ppm and 24-hour average > 0.045 ppm. No location exceeded state standards.

The federal standards are annual arithmetic mean SO<sub>2</sub> > 0.03 ppm, 3-hour average > 0.50 ppm, and 24-hour average > 0.14 ppm.  
SO<sub>2</sub> concentrations were well below the federal standards.



**South Coast  
Air Quality Management District**  
21865 East Copley Drive  
Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/smog/areamap.html>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

**2001 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location		Suspended Particulates PM10 e)						Suspended Particulates PM2.5 f)						Particulates TSP g)			Lead g)		Sulfate g)					
		Station No.	Days of Data	No. (%) Samples Exceeding Standard				Annual Averages h)	No. (%) Samples Exceeding Standard				Annual Averages i)	Days of Data	Max. Conc. 24-hour	Max. Conc. 24-hour	Annual Average	Max. Monthly Average	Max. Quarterly Average	Days of Data	Max. Conc. 24-hour	Max. Conc. 24-hour	No. (%) Samples Exceeding Standard	
				No. Max. Conc. Days in 24-hour	Federal > 150 µg/m³	State > 50 µg/m³	AAM Conc. µg/m³	AGM Conc. µg/m³	No. Max. Conc. Days in 24-hour	Federal > 65 µg/m³	AAM Conc. µg/m³	Annual Average												
LOS ANGELES COUNTY																								
1 Central LA	087	61	97	0	20(33)	44.2	40.3		334	73.4	4(1.2)	22.9		61	131	75.4	0.06	0.05		15.9	0			
2 Northwest Coastal LA County	091	--	--	--	--	--	--		--	--	--	--		60	81	46.5	--	--		15.6	0			
3 Southwest Coastal LA County	094	58	75	0	8(14)	37.1	34.4		--	--	--	--		61	118	71.4	0.04	0.04		20.6	0			
4 South Coastal LA County	072	59	91	0	10(17)	37.4	34.8		317	72.9	1(0.3)	21.4		68	113	67.2	0.05	0.04		15.9	0			
6 West San Fernando Valley	074	--	--	--	--	--	--		109	71.1	1(0.9)	18.5		--	--	--	--	--		--	--			
7 East San Fernando Valley	069	61	86	0	14(23)	40.9	36.9		117	94.7	4(3.4)	24.9		--	--	--	--	--		--	--			
8 West San Gabriel Valley	088	--	--	--	--	--	--		110	78.1	1(0.9)	20.9		60	88	49.6	--	--		13.4	0			
9 East San Gabriel Valley 1	060	58	106	0	22(38)	45.3	39.9		308	79.7	4(1.3)	21.8		59	178	93.9	--	--		14.1	0			
9 East San Gabriel Valley 2	591	--	--	--	--	--	--		--	--	--	--		--	--	--	--	--		--	--			
10 Pomona/Walnut Valley	075	--	--	--	--	--	--		--	--	--	--		--	--	--	--	--		--	--			
11 South San Gabriel Valley	085	--	--	--	--	--	--		95	77.3	3(3.2)	26.1		59	146	76.9	0.07	0.05		14.5	0			
12 South Central LA County	084	--	--	--	--	--	--		116	73.1	3(2.6)	24.5		58	385	90.2	0.23	0.12		15.4	0			
13 Santa Clarita Valley	090	61	62	0	4(7)	32.0	28.5		--	--	--	--		--	--	--	--	--		--	--			
ORANGE COUNTY																								
16 North Orange County	3177	--	--	--	--	--	--		--	--	--	--		--	--	--	--	--		--	--			
17 Central Orange County	3176	46*	93*	0*	9(20)*	36.0*	33.7*		252*	70.8*	1(0.4)*	22.4*		--	--	--	--	--		--	--			
18 North Coastal Orange County	3195	--	--	--	--	--	--		--	--	--	--		--	--	--	--	--		--	--			
19 Saddleback Valley	3812	57	60	0	3(5)	26.4	24.0		102	53.4	0	15.8		--	--	--	--	--		--	--			
RIVERSIDE COUNTY																								
22 Norco/Corona	4155	54	109	0	18(33)	44.8	39.3		--	--	--	--		--	--	--	--	--		--	--			
23 Metropolitan Riverside County 1	4144	117	136	0	78(67)	63.1	54.3		325	98.0	19(5.8)	31.1		57	296	123.7	0.04	0.03		10.7	0			
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	--		106	74.9	5(4.7)	28.3		61	182	86.8	0.03	0.03		9.2	0			
24 Perris Valley	4149	60	86	0	16(27)	40.8	36.0		--	--	--	--		--	--	--	--	--		--	--			
25 Lake Elsinore	4158	--	--	--	--	--	--		--	--	--	--		--	--	--	--	--		--	--			
29 Banning Airport	4164	54	219	1(1.9)	7(13)	35.1	26.7		--	--	--	--		--	--	--	--	--		--	--			
30 Coachella Valley 1**	4137	49*	53k)	0k)	1(2k)	26.7k)	23.9k)		107	44.7	0	10.8		--	--	--	--	--		--	--			
30 Coachella Valley 2**	4157	112k	149k)	0k)	50(45k)	50.2k)	44.3k)		113	33.5	0	12.2		--	--	--	--	--		--	--			
SAN BERNARDINO COUNTY																								
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--		--	--	--	--		58	171	69.7	0.05	0.04		10.7	0			
33 Southwest San Bernardino Valley	5817	64	166	1(1.6)	27(42)	52.4	46.2		113	71.2	2(1.8)	26.2		--	--	--	--	--		--	--			
34 Central San Bernardino Valley 1	5197	60	106	0	34(57)	50.5	43.8		114	74.8	4(3.5)	24.8		60	237	102.1	--	--		10.7	0			
34 Central San Bernardino Valley 2	5203	60	106	0	31(52)	52.0	45.2		111	78.5	5(4.5)	26.2		55	224	101.3	0.05	0.04		11.5	0			
35 East San Bernardino Valley	5204	49*	102*	0*	22(45)*	46.6*	39.6*		--	--	--	--		--	--	--	--	--		--	--			
37 Central San Bernardino Mountains	5181	--	--	--	--	--	--		--	--	--	--		--	--	--	--	--		--	--			
38 East San Bernardino Mountains	5818	--	--	--	--	--	--		57	34.6	0	10.9		--	--	--	--	--		--	--			
DISTRICT MAXIMUM					219	1	78	63.1	54.3		98.0	19	31.1		385	123.7	0.23	0.12		20.6	0			

µg/m³ - Micrograms per cubic meter of air.

AAM - Annual Arithmetic Mean

AGM - Annual Geometric Mean

-- - Pollutant not monitored.

\* - Less than 12 full months of data. May not be representative.

\*\* - Salton Sea Air Basin.

e) - PM10 samples were collected every 6 days (every 3 days at Station Numbers 4144 and 4157) using the size-selective inlet high volume sampler with quartz filter media.

f) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

g) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

h) - Federal PM10 standard is AAM > 50 µg/m³, and state standard is AGM > 30 µg/m³.

i) - Federal PM2.5 standard is AAM > 15 µg/m³.

j) - Federal lead standard is quarterly average > 1.5 µg/m³, and state standard is monthly average ≥ 1.5 µg/m³. No location exceeded lead standards.

Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 2000. The maximum monthly average concentration was 0.57 µg/m³, and the maximum quarterly average concentration was 0.49 µg/m³, both recorded in Area 1, Central Los Angeles.

k) - The data for the samples collected on high-wind-days (245 µg/m³ on 6/3/01, 180 µg/m³ on 6/12/01, 155 µg/m³ on 7/3/01, 604 µg/m³ on 8/17/01 and 165 µg/m³ on 9/13/01 at Station Number 4157; and 432 µg/m³ on 7/3/01 at Station Number 4137) were excluded in accordance with EPA's Natural Events Policy.

**2000 AIR QUALITY**  
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2000**

Source/Receptor Area No.	Station No.	Carbon Monoxide						Ozone						Nitrogen Dioxide						Sulfur Dioxide						
		No. Days Standard Exceeded <sup>a)</sup>			No. Days Standard Exceeded			No. Days Standard Exceeded			Average Compared to Federal Standard <sup>b)</sup>			No. Days Standard Exceeded			Average Compared to Federal Standard <sup>d)</sup>			Sulfur Dioxide						
		No. Days in Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	Federal	State	No. Days in Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	Fourth High Conc.	Federal	State	No. Days in Data	Max. Conc. in 1-hour	AAM	to Federal Standard <sup>b)</sup>	State	No. Days in Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	AAM	to Federal Standard <sup>d)</sup>				
Los Angeles County																										
1 Central LA	087	365	7	6.0	0	0	365	0.14	0.105	0.086	1	4	8	353	0.16	0.0404	0	305*	0.08*	0.010*	0.0009*					
2 Northwest Coastal LA County	091	362	6	4.3	0	0	365	0.10	0.079	0.071	0	0	2	361	0.16	0.0273	0	—	—	—	—					
3 Southwest Coastal LA County	094	365	9	7.0	0	0	369	0.10	0.075	0.065	0	0	1	364	0.13	0.0275	0	365	0.17	0.017	0.0017					
4 South Coastal LA County	072	363	10	5.8	0	0	365	0.12	0.080	0.069	0	0	3	358	0.14	0.0313	0	365	0.05	0.014	0.0015					
5 West San Fernando Valley	074	365	11	9.8	1	2	362	0.11	0.084	0.083	0	0	6	365	0.11	0.0285	0	—	—	—	—					
7 East San Fernando Valley	069	365	8	6.1	0	0	363	0.15	0.119	0.098	3	11	16	365	0.17	0.0415	0	357	0.01	0.004	0.0001					
8 West San Gabriel Valley	088	357	9	7.4	0	0	362	0.16	0.134	0.106	7	14	19	355	0.17	0.0296	0	—	—	—	—					
9 East San Gabriel Valley 1	060	365	5	4.9	0	0	365	0.17	0.141	0.109	11	16	32	365	0.15	0.0366	0	—	—	—	—					
9 East San Gabriel Valley 2	591	345	4	3.1	0	0	358	0.17	0.148	0.113	11	22	39	349	0.13	0.0290	0	—	—	—	—					
10 Pomona/Walnut	075	360	7	4.9	0	0	363	0.15	0.124	0.089	3	5	18	358	0.14	0.0435	0	—	—	—	—					
11 South San Gabriel Valley	085	365	7	5.3	0	0	365	0.14	0.114	0.086	2	4	11	365	0.14	0.0366	0	—	—	—	—					
12 South Central LA County 1	084	365	13	10.0	2	6	365	0.09	0.064	0.051	0	0	0	360	0.14	0.0366	0	—	—	—	—					
12 South Central LA County 2	801	222*	13*	9.5*	1*	3*	222*	0.12*	0.095*	0.085*	0*	4*	4*	221*	0.11*	0.0292*	0*	—	—	—	—					
13 Santa Clarita Valley	089	345	6	4.9	0	0	360	0.13	0.111	0.099	1	16	31	360	0.10	0.0246	0	—	—	—	—					
Orange County																										
16 North Orange County	3177	364	14	6.1	0	0	364	0.14	0.103	0.085	1	4	8	269*	0.12*	0.0304*	0*	—	—	—	—					
17 Central Orange County	3176	360	8	6.8	0	0	364	0.13	0.101	0.075	1	1	9	364	0.13	0.0300	0	—	—	—	—					
18 North Coastal Orange County	3195	339*	8*	6.3*	0*	0*	365	0.10	0.087	0.087	1	1	1	362	0.11	0.0205	0	363	0.02	0.008	0.0005					
19 Saddleback Valley 1	3186	244*	5*	2.3*	0*	0*	244*	0.13*	0.110*	0.068*	1*	2*	3*	—	—	—	—	—	—	—	—					
19 Saddleback Valley 2	3812	305*	4*	3.3*	0*	0*	305*	0.15*	0.129*	0.089*	2*	8*	25*	—	—	—	—	—	—	—	—					
Riverside County																										
22 Norco/Corona	4155	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
23 Metropolitan Riverside County 1	4144	365	5	4.3	0	0	365	0.14	0.113	0.106	3	29	41	298*	0.10*	0.0236*	0*	329*	0.11*	0.041*	0.0008*					
23 Metropolitan Riverside County 2	4146	365	9	4.3	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
24 Perris Valley	4149	—	—	—	—	—	361	0.16	0.126	0.113	15	41	65	—	—	—	—	—	—	—	—	—	—	—	—	
25 Lake Elsinore	4158	351	4	2.0	0	0	361	0.13	0.109	0.099	1	31	45	360	0.08	0.0175	0	—	—	—	—					
29 Banning Airport	4164	—	—	—	—	—	363	0.14	0.111	0.103	4	39	52	365	0.21	0.0237	0	—	—	—	—					
30 Coachella Valley 1**	4137	353	3	1.6	0	0	355	0.12	0.105	0.096	0	33	40	337	0.07	0.0178	0	—	—	—	—					
30 Coachella Valley 2**	4157	87*	3*	2.1*	0*	0*	354	0.11	0.096	0.089	0	9	43	87*	0.06*	0.0099*	0*	—	—	—	—					
San Bernardino County																										
32 Northwest San Bernardino Valley	5175	348	4	2.6	0	0	365	0.18	0.159	0.118	10	19	43	357	0.15	0.0380	0	—	—	—	—					
33 Southwest San Bernardino Valley	5817	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
34 Central San Bernardino Valley 1	5197	—	—	—	—	—	365	0.17	0.139	0.101	7	16	36	365	0.12	0.0364	0	274*	0.02*	0.010*	0.0018*					
34 Central San Bernardino Valley 2	5203	304*	5*	4.3*	0*	0*	365	0.15	0.125	0.111	7	27	48	365	0.10	0.0325	0	—	—	—	—					
35 East San Bernardino Valley	5204	—	—	—	—	—	365	0.15	0.133	0.113	11	51	78	—	—	—	—	—	—	—	—	—	—	—	—	
37 Central San Bernardino Mountains	5181	—	—	—	—	—	354	0.18	0.149	0.123	17	73	85	—	—	—	—	—	—	—	—	—	—	—	—	
38 East San Bernardino Mountains	5818	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
District Maximum		14	10.0	2	6		0.18	0.159	0.123	17	73	85		0.21	0.0435	0		0.17	0.041	0.0018						

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- Pollutant not monitored.

\*Less than 12 full months of data. May not be representative.

\*\*Salton Sea Air Basin.

a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.

b) - The federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.

c) - The state standards are 1-hour average > 0.25 ppm and 24-hour average > 0.045 ppm. No location exceeded state standards.

d) - The federal standard is annual arithmetic mean SO<sub>2</sub> > 0.03 ppm. No location exceeded this standard.

The other federal standards (3-hour average > 0.50 ppm, and 24-hour average > 0.14 ppm) were not exceeded either.

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/sinog/areamap.html>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.



**South Coast  
Air Quality Management District**  
21865 East Copley Drive  
Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

# 2000

**2000 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 <sup>e)</sup>						Suspended Particulates PM2.5 <sup>f)</sup>						Particulates TSP <sup>g)</sup>			Lead <sup>h)</sup>		Sulfate <sup>i)</sup>		
		No. (%) Samples						No. (%) Samples						Annual Average			Max. Monthly Average		Max. Standard		
		No. Days of Data	Max. 24-hour Conc. <sup>j)</sup>	Federal	State	Exceeding Standard	Annual Averages <sup>h)</sup>	No. Days of Data	Max. 24-hour Conc.	Federal	State	Exceeding Standard	Annual Averages <sup>i)</sup>	No. Days of Data	Max. 24-hour Conc.	AAM	Conc., <sup>j)</sup>	Max. Conc. <sup>j)</sup>	Conc., <sup>j)</sup>	No. (%) Samples Exceeding Standard	
Los Angeles County																					
1 Central LA	087	60	80	0	15(25)	40.0	37.0	334	87.8	11(3.3)	22.0	60	127	72.0	0.06	0.05	16.4	0			
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	60	87	48.2	--	--	--	14.1	0		
3 Southwest Coastal LA County	094	57	74	0	9(16)	36.1	33.4	--	--	--	--	61	127	64.8	0.08	0.05	16.2	0			
4 South Coastal LA County	072	57	105	0	32(21)	37.6	34.0	304*	81.5*	4(1.3)*	19.2*	61	164	68.2	0.05	0.04	26.7	1			
5 West San Fernando Valley	074	--	--	--	--	--	--	108	67.5	2(1.9)	18.1	--	--	--	--	--	--	--	--		
7 East San Fernando Valley	069	60	74	0	14(23)	39.1	36.1	70*	84.4*	3(4.3)*	23.8*	--	--	--	--	--	--	--	--		
8 West San Gabriel Valley	088	--	--	--	--	--	--	110	66.3	1(0.9)	19.3	60	91	49.1	--	--	--	13.9	0		
9 East San Gabriel Valley 1	060	57	94	0	24(42)	46.3	42.5	333	92.5	5(1.5)	20.1	59	157	85.3	--	--	--	17.2	0		
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10 Pomona/Walnut	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11 South San Gabriel Valley	085	--	--	--	--	--	--	116	89.5	4(3.4)	24.1	57	118	74.7	0.09	0.06	13.1	0			
12 South Central LA County 1	084	--	--	--	--	--	--	121	82.1	2(1.7)	23.0	60	187	74.9	0.09	0.06	11.4	0			
12 South Central LA County 2	801	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
13 Santa Clarita Valley	089	61	64	0	4(7)	32.7	29.8	--	--	--	--	--	--	--	--	--	--	--	--		
Orange County																					
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
17 Central Orange County	3176	61	126	0	8(13)	39.9	35.7	273*	113.9*	6(2.2)*	21.0*	--	--	--	--	--	--	--	--		
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
19 Saddleback Valley 1	3186	31*	60*	0*	1(3)*	28.9*	27.4*	--	--	--	--	--	--	--	--	--	--	--	--		
19 Saddleback Valley 2	3812	60	98	0	2(3)	27.8	25.5	119	94.7	1(0.8)	14.7	--	--	--	--	--	--	--	--		
Riverside County																					
22 Norco/Corona	4155	58	129	0	28(48)	49.3	43.4	--	--	--	--	--	--	--	--	--	--	--	--		
23 Metropolitan Riverside County 1	4144	97	139	0	68(70)	60.1	54.7	304*	119.6*	11(3.6)*	28.2*	62	211	115.5	0.06	0.05	11.0	0			
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	--	111	79.3	5(4.5)	25.5	63	144	82.8	0.04	0.03	10.2	0			
24 Perris Valley	4149	59	87	0	13(22)	41.1	36.8	--	--	--	--	--	--	--	--	--	--	--	--		
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
29 Banning Airport	4164	59	69	0	5(8)	29.1	24.7	--	--	--	--	--	--	--	--	--	--	--	--		
30 Coachella Valley 1**	4137	56	44	0	0	24.4	22.7	120	28.5	0	9.6	--	--	--	--	--	--	--	--		
30 Coachella Valley 2**	4157	103k)	114k)	0k)	52(50)k)	.51.9k)	48.4k)	115	28.6	0	11.2	--	--	--	--	--	--	--	--		
San Bernardino County																					
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	56	122	69.8	0.07	0.05	11.5	0			
33 Southwest San Bernardino Valley	5817	58	124	0	26(45)	50.4	46.3	111	73.4	2(1.8)	24.2	--	--	--	--	--	--	--	--		
34 Central San Bernardino Valley 1	5197	60	108	0	31(52)	52.6	47.1	111	72.9	2(1.8)	24.5	57	180	97.3	--	--	10.7	0			
34 Central San Bernardino Valley 2	5203	60	108	0	32(53)	50.1	44.5	102*	89.8*	3(2.9)*	25.4*	59	168	95.4	0.06	0.05	12.4	0			
35 East San Bernardino Valley	5204	61	109	0	27(44)	46.0	39.7	--	--	--	--	--	--	--	--	--	--	--	--		
37 Central San Bernardino Mountains	5181	58	49	0	0	24.0	20.7	--	--	--	--	58	29.0	0	10.6	--	--	--	--		
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
District Maximum								139	0	68	60.1	54.7	119.6	11	28.2	211	115.5	0.09	0.06	26.7	1

µg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM - Annual Arithmetic Mean

AGM - Annual Geometric Mean

-- Pollutant not monitored.

\* - Less than 12 full months of data. May not be representative.

\*\* - Salton Sea Air Basin.

e) - PM10 samples were collected every 6 days (every 3 days at Station Numbers 4144 and 4157) using the size-selective inlet high volume sampler with quartz filter media.

f) - PM2.5 federal standard was established effective September 16, 1997. PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

g) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

h) - Federal PM10 standard is AAM > 50 µg/m<sup>3</sup>, and state standard is AGM > 30 µg/m<sup>3</sup>.

i) - Federal PM2.5 standard is AAM > 15 µg/m<sup>3</sup>.

j) - Federal lead standard is quarterly average > 1.5 µg/m<sup>3</sup>; and state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. No location exceeded lead standards.

Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 2000. The maximum monthly average concentration was 0.46 µg/m<sup>3</sup>, and the maximum quarterly average concentration was 0.34 µg/m<sup>3</sup>, both recorded in Area 5, Southeast Los Angeles County.

k) - The data for the samples collected on high-wind-days (190 µg/m<sup>3</sup> on 4/21/00, 201 µg/m<sup>3</sup> on 5/15/00 and 183 µg/m<sup>3</sup> on 9/21/00) were excluded in accordance with EPA's Natural Events Policy.



**1999 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location		Station No.	Carbon Monoxide						Ozone						Nitrogen Dioxide				Sulfur Dioxide			
			No. Days Standard Exceeded a)				No. Days Standard Exceeded b)				Average Compared to Federal Standard b)				No. Days Exceeded State		Average Compared to Federal Standard d)					
			No. Days of Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	Federal > 9.0	No. Days of Data	Max. Conc. in 1-hour	Max. Conc. in 8-hour	Fourth High Conc.	Federal > 0.12	Federal > 0.08	Federal > 0.09	No. Days of Data	Max. Conc. in 1-hour	AAM	> 0.25	No. Days of Data	Max. Conc. in 1-hour	Max. Conc. in 24-hour c)	AAM	
Los Angeles County																						
1 Central LA		087	364	7	6.3	0	0	362	0.13	0.11	0.079	1	2	13	347	0.21	0.0391	0	333*	0.05*	0.010*	0.0023*
2 Northwest Coastal LA County		091	362	6	3.8	0	0	365	0.12	0.08	0.069	0	0	4	359	0.13	0.0291	0	--	--	--	--
3 Southwest Coastal LA County		094	361	10	8.4	0	0	362	0.15	0.09	0.066	1	1	1	356	0.13	0.0295	0	363	0.09	0.020	0.0040
4 South Coastal LA County		072	358	7	5.4	0	0	362	0.13	0.08	0.068	1	0	3	359	0.15	0.0342	0	360	0.05	0.011	0.0027
6 West San Fernando Valley		074	365	9	7.6	0	0	365	0.10	0.09	0.081	0	1	5	354	0.12	0.0287	0	--	--	--	--
7 East San Fernando Valley		069	362	9	9.0	0	0	362	0.12	0.10	0.084	0	3	13	343	0.18	0.0456	0	346	0.01	0.003	0.0001
8 West San Gabriel Valley		088	356	9	6.6	0	0	361	0.12	0.10	0.036	0	4	15	362	0.16	0.0379	0	--	--	--	--
9 East San Gabriel Valley 1		060	336*	5*	3.9*	0*	0*	339*	0.14*	0.10*	0.095*	2*	9*	24*	327*	0.16*	0.0390*	0*	--	--	--	--
9 East San Gabriel Valley 2		591	--	--	--	--	--	362	0.14	0.11	0.096	3	8	25	357	0.14	0.0328	0	--	--	--	--
10 Pomona/Walnut		075	356	10	6.7	0	0	358	0.14	0.10	0.089	2	10	19	346	0.16	0.0503	0	--	--	--	--
11 South San Gabriel Valley		085	363	7	5.6	0	0	363	0.12	0.10	0.080	0	2	6	333*	0.16*	0.0391*	0	--	--	--	--
12 South Central LA County 1		084	361	19	11.0	8	10	363	0.12	0.06	0.041	0	0	1	343	0.18	0.0428	0	--	--	--	--
12 South Central LA County 2		801	349	19	11.7	6	6	342*	0.16*	0.09*	0.083*	1*	2*	6*	148*	0.16*	0.0404*	0*	--	--	--	--
13 Santa Clarita Valley		089	356	7	3.6	0	0	357	0.12	0.10	0.095	0	13	18	141*	0.10*	0.0284*	0*	--	--	--	--
Orange County																						
16 North Orange County		3177	364	11	5.3	0	0	365	0.12	0.09	0.078	0	1	6	364	0.16	0.0351	0	--	--	--	--
17 Central Orange County		3176	123*	8*	5.3*	0*	0*	157*	0.10*	0.08*	0.061*	0*	0*	1*	154*	0.12*	0.0327*	0*	--	--	--	--
18 North Coastal Orange County		3195	359	8	6.4	0	0	350	0.10	0.08	0.070	0	0	1	347	0.12	0.0209	0	363	0.02	0.008	0.0007
19 Saddleback Valley 1		3186	365	4	2.5	0	0	361	0.10	0.08	0.071	0	0	2	--	--	--	--	--	--	--	--
19 Saddleback Valley 2		3812	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Riverside County																						
22 Norco/Corona		4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1		4144	354	7	4.4	0	0	359	0.14	0.11	0.104	3	27	38	354	0.13	0.0255	0	358	0.03	0.011	0.0014
23 Metropolitan Riverside County 2		4146	300*	7*	4.1*	0*	0*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24 Perris Valley		4149	--	--	--	--	--	365	0.11	0.10	0.091	0	7	10	--	--	--	--	--	--	--	--
25 Lake Elsinore		4158	--	--	--	--	--	360	0.14	0.13	0.106	4	37	51	334*	0.11*	0.0200*	0	--	--	--	--
29 Banning Airport		4164	--	--	--	--	--	358	0.14	0.13	0.114	5	33	55	361	0.31	0.0243	1	--	--	--	--
30 Coachella Valley 1**		4137	350	3	1.8	0	0	349	0.13	0.11	0.098	1	21	27	350	0.07	0.0195	0	--	--	--	--
30 Coachella Valley 2**		4157	--	--	--	--	--	358	0.13	0.11	0.089	1	7	13	--	--	--	--	--	--	--	--
San Bernardino County																						
32 Northwest San Bernardino Valley		5175	--	--	--	--	--	361	0.15	0.12	0.103	4	17	29	357	0.13	0.0398	0	--	--	--	--
33 Southwest San Bernardino Valley 1		5171	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
33 Southwest San Bernardino Valley 2		5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34 Central San Bernardino Valley 1		5197	--	--	--	--	--	365	0.14	0.10	0.098	4	16	26	343	0.15	0.0388	0	355	0.01	0.010	0.0018
34 Central San Bernardino Valley 2		5203	358	5	4.0	0	0	355	0.16	0.13	0.115	14	31	45	355	0.14	0.0358	0	--	--	--	--
35 East San Bernardino Valley		5204	--	--	--	--	--	365	0.15	0.13	0.115	12	39	59	--	--	--	--	--	--	--	--
37 Central San Bernardino Mountains		5181	--	--	--	--	--	365	0.17	0.14	0.133	30	90	93	--	--	--	--	--	--	--	--
District Maximum									0.17	0.14	0.133	30	90	93		0.31	0.0503	1		0.09	0.020	0.0040

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- Pollutant not monitored.

\*Less than 12 full months of data. May not be representative.

\*\*Salton Sea Air Basin

a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.

b) - The federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.

c) - The state standards are 1-hour average > 0.25 ppm and 24-hour average > 0.04 ppm. No location exceeded state standards.

d) - The federal standard is annual arithmetic mean SO<sub>2</sub> greater than 80 µg/m<sup>3</sup> (0.03 ppm). No location exceeded this standard.

The other federal standards (3-hour average > 0.50 ppm, and 24-hour average > 0.14 ppm) were not exceeded either.



**South Coast  
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You can access the map showing the locations of source/receptor areas via the Internet at <http://www.aqmd.gov/smog/areamap.html>. The locations of source/receptor areas are shown in detail in the map "South Coast Air Quality Management District Air Monitoring Areas" available free of charge from SCAGMD Public Information.

**1999 AIR QUALITY**  
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**1999**

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 e)						Suspended Particulates PM2.5 f)						Particulates TSP g)			Lead g)		Sulfate g)		
		No. (%) Samples						No. (%) Samples						Annual Average					No. (%) Samples		
		No. Days of Data	Max. Conc. 24-hour	Federal	Exceeding Standard	State	AAM	No. Days of Data	Max. Conc. 24-hour	Federal	Exceeding Standard	State	AAM	No. Days of Data	Max. Conc. 24-hour	Monthly Conc. i)	Max. Conc. i)	24-hour	Max. Conc. 24-hour	Standard State	
Los Angeles County																					
1 Central LA	087	60	88	0	19 (33)	44.8	42.1	136	69.3	2 (2)	23.1	60	138	73.7	0.13	0.07	17.9	0			
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	56	108	50.9	--	--	13.9	0			
3 Southwest Coastal LA County	094	60	69	0	6 (10)	35.6	33.4	--	--	--	--	55	113	63.9	0.05	0.04	18.8	0			
4 South Coastal LA County	072	59	79	0	13 (22)	38.9	36.4	148	66.9	1 (1)	21.5	60	158	64.2	0.06	0.05	13.7	0			
5 West San Fernando Valley	074	--	--	--	--	--	--	71*	79.0*	1 (1)*	17.5*	--	--	--	--	--	--	--	--		
7 East San Fernando Valley	069	60	82	0	21 (35)	43.7	40.6	106	79.5	1 (1)	23.3	--	--	--	--	--	--	--	--		
8 West San Gabriel Valley	088	--	--	--	--	--	--	95*	73.0*	1 (1)*	20.6*	57	109	55.1	--	--	16.4	0			
9 East San Gabriel Valley 1	060	60	103	0	35 (58)	56.3	51.5	144	81.3	3 (2)	25.6	56	209	101.3	--	--	17.8	0			
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10 Pomona/Walnut	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11 South San Gabriel Valley	085	--	--	--	--	--	--	111	85.6	2 (2)	25.7	59	182	86.6	0.21	0.09	25.6	1 (2)			
12 South Central LA County 1	084	--	--	--	--	--	--	110	67.8	1 (1)	24.2	59	176	90.9	0.17	0.09	15.6	0			
12 South Central LA County 2	801	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
13 Santa Clarita Valley	089	56	75	0	12 (21)	38.4	34.5	--	--	--	--	--	--	--	--	--	--	--	--		
Orange County																					
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
17 Central Orange County	3176	39*	122*	0*	15 (39)*	49.4*	43.4*	115	68.7	2 (2)	24.4	--	--	--	--	--	--	--	--		
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
19 Saddleback Valley 1	3186	60	111	0	6 (10)	36.7	34.2	--	--	--	--	--	--	--	--	--	--	--	--		
19 Saddleback Valley 2	3812	33*	56*	0*	1 (3)*	28.8*	27.6*	68*	56.6*	0*	16.8*	--	--	--	--	--	--	--	--		
Riverside County																					
22 Norco/Corona	4155	56	136	0	31 (55)	55.4	49.0	--	--	--	--	--	--	--	--	--	--	--	--		
23 Metropolitan Riverside County 1	4144	64	153	1(2)	46 (72)	72.3	64.9	151	111.2	9 (6)	30.9	60	261	120.0	0.06	0.05	10.7	0			
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	--	110	90.0	2 (2)	26.9	70	140	90.3	0.05	0.04	10.6	0			
24 Perris Valley	4149	60	112	0	30 (50)	50.0	44.0	--	--	--	--	--	--	--	--	--	--	--	--		
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
29 Banning Airport	4164	34*	86*	0*	4 (12)*	34.5*	29.8*	--	--	--	--	--	--	--	--	--	--	--	--		
30 Coachella Valley 1**	4137	58	104	0	3 (5)	28.8	26.1	--	--	--	--	--	--	--	--	--	--	--	--		
30 Coachella Valley 2**	4157	56	119	0	30 (54)	52.7	49.8	83*	29.6*	0*	12.6*	--	--	--	--	--	--	--	--		
San Bernardino County																					
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	56	150	77.6	0.07	0.05	11.7	0			
33 Southwest San Bernardino Valley 1	5171	57	112	0	32 (56)	55.3	49.9	96*	85.9*	2 (2)*	25.7*	--	--	--	--	--	--	--	--		
33 Southwest San Bernardino Valley 2	5817	55	183	1(2)	37 (67)	65.9	58.6	--	--	--	--	--	--	--	--	--	--	--	--		
34 Central San Bernardino Valley 1	5197	59	116	0	36 (61)	60.2	54.3	121	98.0	3 (3)	25.9	60	232	106.3	--	--	12.4	0			
34 Central San Bernardino Valley 2	5203	59	134	0	33 (56)	56.5	50.6	104	121.5	4 (4)	25.7	55	203	102.8	0.07	0.05	10.9	0			
35 East San Bernardino Valley	5204	57	92	0	23(40)	46.6	40.5	--	--	--	--	--	--	--	--	--	--	--	--		
37 Central San Bernardino Mountains	5181	57	47	0	0	27.1	23.6	--	--	--	--	--	--	--	--	--	--	--	--		
District Maximum		183	1	46	72.3	64.9		121.5	9	30.9		261	120.0	0.21	0.09	25.6	1				

µg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM - Annual Arithmetic Mean

AGM - Annual Geometric Mean

-- - Pollutant not monitored.

\* - Less than 12 full months of data. May not be representative.

\*\* - Salton Sea Air Basin.

e) - PM10 samples were collected every 6 days using the size-selective inlet high volume sampler with quartz filter media.

f) - PM2.5 federal standard was established effective September 16, 1997. PM2.5 samples were collected every 3 days using the size selective inlet high volume sampler.

g) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

Federal TSP standard superseded by PM10 standard, July 1, 1987.

h) - Federal PM10 standard is AAM > 50 µg/m<sup>3</sup>; state standard is AGM > 30 µg/m<sup>3</sup>.

i) - Federal PM2.5 standard is AAM > 15 µg/m<sup>3</sup>.

j) - Federal lead standard is quarterly average > 1.5 µg/m<sup>3</sup>; state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. No location exceeded lead standards.

Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 1999. The maximum monthly average concentration was 0.29 µg/m<sup>3</sup>, recorded in Area 5, Southeast Los Angeles County, and the maximum quarterly average concentration was 0.23 µg/m<sup>3</sup>, recorded in Area 1, Central Los Angeles.



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